

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method ~~for non-vascular implant of a sensor of Claim 12, further~~ comprising:

~~implanting an implant unit in an area of a body without passing the implant unit through a vascular system;~~

allowing a foreign body capsule to form around the area of the implant unit;

~~directing the sensor into the foreign body capsule; and~~

~~connecting the sensor to the implant unit subsequent to formation of the foreign body capsule.~~

2. (Cancelled)

3. (Original) The method of Claim 1, further comprising placing a material around the implant unit for promoting growth characteristics.

4. (Original) The method of Claim 1, wherein the implant unit comprises electronics.

5. (Original) The method of Claim 1, wherein the implant unit comprises a pump.

6. (Original) The method of Claim 1, wherein allowing a foreign body capsule to form comprises inserting materials around the implant unit to promote growth characteristics.

7. – 9. (Cancelled)

10. (Currently Amended) The method of Claim 1, ~~further comprising~~ wherein incising an area remote from a sensor location comprises incising an area of the body large enough for the sensor.

11. (Currently Amended) The method of Claim 10, wherein the incised area of the body large enough for the sensor is smaller than an incised area of the body large enough for inserting the implant unit.

12. (Previously Presented) A method for non-vascular implant of a sensor comprising:
incising an area of a body large enough for inserting an implant unit;
incising an area remote from a sensor location for inserting a sensor;
directing the sensor into a body cavity, disposing the sensor in a location remote from an incision through which the sensor is directed without passing the sensor through a vascular system;
connecting the sensor to the implant unit; and
inserting the implant unit into the body.

13. (Original) The method of Claim 12, wherein inserting the implant unit into the body comprises inserting the implant unit into a pocket formed when incising an area of the body large enough for inserting the implant unit.

14. (Original) The method of Claim 12, further comprising fixing the sensor in place using suture.

15. (Previously Presented) A non-vascular implant system comprising:
an implant unit; and
a sensor for detecting a physiological parameter, the sensor being separate from and connectable to the implant unit,
wherein the implant unit is configured for implantation in a human body,
wherein the sensor is configured to be placed in an area of the human body without passing the sensor through a vascular system, and
wherein the sensor is configured to be connected to the implant unit after the implant unit is implanted in the human body.

16. (Original) The system of Claim 15, wherein the implant unit comprises a pump.
17. (Original) The system of Claim 15, wherein the implant unit comprises electronics.
18. (Original) The system of Claim 15, wherein the implant unit delivers drug to a human body.
19. (Original) The system of Claim 18, wherein the drug is insulin.
20. (Original) The system of Claim 15, wherein the sensor comprises a biomolecule.
21. (Original) The system of Claim 15, wherein the sensor comprises a lead.
22. (Original) The system of Claim 15, wherein the sensor comprises a sensing element.
23. (Original) The system of Claim 22, wherein the sensing element is a biomolecule.
24. (Original) The system of Claim 23, wherein the biomolecule is a glucose oxidase enzyme.
25. (Original) The system of Claim 15, wherein the physiological parameter is oxygen.
26. (Original) The system of Claim 15, wherein the physiological parameter is glucose.
27. (Original) The system of Claim 15, wherein the non-vascular area of the human body is the peritoneum.
28. (Original) The system of Claim 15, wherein the non-vascular area of the human body is subcutaneous tissue.

29. (Original) A method for non-vascular implant of a sensor comprising:
incising an area of a body large enough for inserting an implant unit;
creating a tunnel in subcutaneous tissue;
directing the sensor through the tunnel;
connecting the sensor to the implant unit; and
inserting the implant unit into the body.
30. (Original) The method of Claim 29, wherein the tunnel is created using a blunt instrument.
31. (Original) The method of Claim 29, wherein the blunt instrument causes minimal trauma to the subcutaneous tissue.
32. (Original) The method of Claim 29, wherein the blunt instrument is a trocar.
33. (Currently Amended) A method ~~for non-vascular implant of a sensor~~ as recited in claim 29, further comprising:
~~implanting an implant unit in a body cavity;~~
allowing a foreign body capsule to form around the implant unit;
~~directing the sensor into the foreign body capsule; and~~
~~connecting the sensor to the implant unit subsequent to formation of the foreign~~
~~body capsule.~~